IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-24 (canceled).

25. (currently amended)A virtual computer system, comprising:

a plurality of virtual computers operating on a physical computer having one or more CPUs and a main memory device;

a hypervisor;

a storing section for storing contents of a plurality of actions for changing physical resources allocated to virtual computers judged as having high loads by a load monitor which monitors load conditions of said virtual computers; and

means for implementing said plurality of actions sequentially and for conducting physical resource allocation according to contents of said actions that are effective in lowering loads of said virtual computers,

wherein said hypervisor comprises:

said load monitor for monitoring load conditions of said virtual computers based on load conditions of said main memory device,

a reallocation section for providing an output for dynamically changing allocation of physical resources to said virtual computers based on said load conditions monitored by said load monitor, and

a controller for controlling physical resource allocation to said virtual computers based on load conditions ~~obtained~~ monitored by said load monitor,

and for demanding reallocation in response to ~~an~~ said output from said reallocation section~~.~~, and

wherein a result of implementing said actions is fed back to said means for implementing to permit selection of actions that are effective.

26. (currently amended)A virtual computer system according to claim 25, wherein said load monitor collects load data corresponding to load conditions of at least one of said virtual computers with a fixed interval, and detects periodic regular changes of the collected load data, and

wherein said controller demands said physical resource allocation based on said periodic changes of the collected load data, and demands periodical allocation of physical resources to said reallocation section.

27. (currently amended)A virtual computer system according to claim 25, wherein said controller decides a priority order of allocation of physical resources to each virtual computer in response to the output from said reallocation section according to information of customers using said virtual computers and agreement conditions with the customers.

28. (currently amended)A virtual computer system according to claim 27, wherein said controller uses a reference value to judge an overload condition for each virtual computer, said reference value indicating according to the customers and agreement conditions an amount of load permitted for the virtual computer.

29. (currently amended)A virtual computer system, comprising:

a plurality of virtual computers operating on a physical computer having one or more CPUs, each of said plurality of virtual computers having an OS for controlling execution of an application program;

a hypervisor;

a storing section for storing contents of a plurality of actions for changing physical resources allocated to virtual computers judged as having high loads by a load monitor which monitors load conditions of said virtual computers; and

means for implementing said plurality of actions sequentially and for conducting physical resource reallocation according to contents of said actions that are effective in lowering loads of said virtual computer having effectiveness for lowering the load,

wherein said hypervisor comprises:

said load monitor for monitoring load conditions of said virtual computers based on a response time of a process of said application program in each of said virtual computers,

a reallocation section for providing an output for dynamically changing allocation of physical resources to said virtual computers based on said load conditions monitored by said load monitor, and

a controller for controlling physical resource allocation to said virtual computers based on load conditions ~~obtained~~ monitored by said load monitor, and for demanding reallocation in response to ~~an~~ said output from said reallocation section~~.~~, and

wherein a result of implementing said actions is fed back to said means for implementing to permit selection of actions that are effective.

30. (currently amended)A virtual computer system according to claim 29, wherein said load monitor collects load data corresponding to load conditions of at least one of said virtual computers with a fixed interval, and detects periodic regular changes of the collected load data; and

wherein said controller demands said physical resource allocation based on said periodic changes of the collected load data, and demands periodical allocation of physical resources to said reallocation section.

31. (previously presented) A virtual computer system according to claim 29, wherein said controller decides a priority order of allocation of physical resources to each virtual computer in response to the output from said reallocation section according to information of customers using said virtual computers and agreement conditions with the customers.

32. (previously presented) A virtual computer system according to claim 31, wherein said controller uses has a reference value to judge an overload condition for each value computer, said reference value indicating according to the customers and agreement conditions an amount of load permitted for the virtual computer.

33. (currently amended) A virtual computer system with dynamic resource reallocation, comprising,

a plurality of virtual computers operating on a physical computer having one or more CPUs and a main memory device; and

a hypervisor,

wherein said hypervisor comprises:

a load monitor for monitoring load conditions of said virtual computers,

a resource manager for monitoring physical computer allocation to said virtual computers, and

a reallocation policy generator having an action table which includes contents of a plurality of actions for changing physical resources allocated to virtual computers judged as having ~~a~~ high loads ~~load~~ by said load monitor to reduce loads of said virtual computers judged as having the high loads, ~~and~~

wherein said reallocation policy generator decides reallocation of physical resources to said plurality of virtual computers based on said load conditions, said physical computer allocation and said action table~~.~~, and

wherein said action table can be updated by an administrator of the virtual computer system.

34. (currently amended) A virtual computer system with dynamic resource reallocation according to claim 33, wherein said reallocation policy generator decides reallocation of physical resources based on CPU occupation ratio indicative of an amount of resources occupied by said virtual computers so ~~a~~ that a CPU having a lower load offers certain percentages of its CPU time to another CPU having a higher load.